

<110> INCYTE GENOMICS, INC.
 POLICKY, Jennifer L.
 TRIBOULEY, Catherine M.
 TANG, Y. Tom
 BAUGHN, Mariah R.
 GRAUL, Richard
 KHAN, Farrah A.
 NGUYEN, Dannie B.
 PATTERSON, Chandra
 LAL, Preeti
 AU-YOUNG, Janice
 YANG, Junming
 HAFALIA, April
 WALIA, Narinder K.
 DAS, Debopriya

<120> G-PROTEIN COUPLED RECEPTORS

<130> PI-0072 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/193,051; 60/195,155; 60/199,084; 60/200,551; 60/202,278

<151> 2000-03-29; 2000-04-06; 2000-04-20; 2000-04-28; 2000-05-05

<160> 12

<170> PERL Program

<210> 1

<211> 346

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5628963CD1

<400> 1

Met	Glu	Arg	Lys	Phe	Met	Ser	Leu	Gln	Pro	Ser	Ile	Ser	Val	Ser
1				5					10					15
Glu	Met	Glu	Pro	Asn	Gly	Thr	Phe	Ser	Asn	Asn	Asn	Ser	Arg	Asn
				20					25					30
Cys	Thr	Ile	Glu	Asn	Phe	Lys	Arg	Glu	Phe	Phe	Pro	Ile	Val	Tyr
				35					40					45
Leu	Ile	Ile	Phe	Phe	Trp	Gly	Val	Leu	Gly	Asn	Gly	Leu	Ser	Ile
				50					55					60
Tyr	Val	Phe	Leu	Gln	Pro	Tyr	Lys	Lys	Ser	Thr	Ser	Val	Asn	Val
				65					70					75
Phe	Met	Leu	Asn	Leu	Ala	Ile	Ser	Asp	Leu	Leu	Phe	Ile	Ser	Thr
				80					85					90
Leu	Pro	Phe	Arg	Ala	Asp	Tyr	Tyr	Leu	Arg	Gly	Ser	Asn	Trp	Ile
				95					100					105
Phe	Gly	Asp	Leu	Ala	Cys	Arg	Ile	Met	Ser	Tyr	Ser	Leu	Tyr	Val
				110					115					120
Asn	Met	Tyr	Ser	Ser	Ile	Tyr	Phe	Leu	Thr	Val	Leu	Ser	Val	Val
				125					130					135
Arg	Phe	Leu	Ala	Met	Val	His	Pro	Phe	Arg	Leu	Leu	His	Val	Thr
				140					145					150
Ser	Ile	Arg	Ser	Ala	Trp	Ile	Leu	Cys	Gly	Ile	Ile	Trp	Ile	Leu
				155					160					165
Ile	Met	Ala	Ser	Ser	Ile	Met	Leu	Leu	Asp	Ser	Gly	Ser	Glu	Gln
				170					175					180
Asn	Gly	Ser	Val	Thr	Ser	Cys	Leu	Glu	Leu	Asn	Leu	Tyr	Lys	Ile
				185					190					195
Ala	Lys	Leu	Gln	Thr	Met	Asn	Tyr	Ile	Ala	Leu	Val	Val	Gly	Cys
				200					205					210

Leu	Leu	Pro	Phe	Phe	Thr	Leu	Ser	Ile	Cys	Tyr	Leu	Leu	Ile	Ile
				215					220					225
Arg	Val	Leu	Leu	Lys	Val	Glu	Val	Pro	Glu	Ser	Gly	Leu	Arg	Val
				230					235					240
Ser	His	Arg	Lys	Ala	Leu	Thr	Thr	Ile	Ile	Ile	Thr	Leu	Ile	Ile
				245					250					255
Phe	Phe	Leu	Cys	Phe	Leu	Pro	Tyr	His	Thr	Leu	Arg	Thr	Val	His
				260					265					270
Leu	Thr	Thr	Trp	Lys	Val	Gly	Leu	Cys	Lys	Asp	Arg	Leu	His	Lys
				275					280					285
Ala	Leu	Val	Ile	Thr	Leu	Ala	Leu	Ala	Ala	Ala	Asn	Ala	Cys	Phe
				290					295					300
Asn	Pro	Leu	Leu	Tyr	Tyr	Phe	Ala	Gly	Glu	Asn	Phe	Lys	Asp	Arg
				305					310					315
Leu	Lys	Ser	Ala	Leu	Arg	Lys	Gly	His	Pro	Gln	Lys	Ala	Lys	Thr
				320					325					330
Lys	Cys	Val	Phe	Pro	Val	Ser	Val	Trp	Leu	Arg	Lys	Glu	Thr	Arg
				335					340					345
Val														

<210> 2

<211> 910

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1453124CD1

<400> 2

Met	Lys	Val	Gly	Val	Leu	Trp	Leu	Val	Ser	Phe	Phe	Thr	Phe	Thr
1				5					10					15
Asp	Gly	His	Gly	Gly	Phe	Leu	Gly	Lys	Asn	Asp	Gly	Ile	Lys	Thr
				20					25					30
Lys	Lys	Glu	Leu	Ile	Val	Asn	Lys	Lys	Lys	His	Leu	Gly	Pro	Val
				35					40					45
Glu	Glu	Tyr	Gln	Leu	Leu	Leu	Gln	Val	Thr	Tyr	Arg	Asp	Ser	Lys
				50					55					60
Glu	Lys	Arg	Asp	Leu	Arg	Asn	Phe	Leu	Lys	Leu	Leu	Lys	Pro	Pro
				65					70					75
Leu	Leu	Trp	Ser	His	Gly	Leu	Ile	Arg	Ile	Ile	Arg	Ala	Lys	Ala
				80					85					90
Thr	Thr	Asp	Cys	Asn	Ser	Leu	Asn	Gly	Val	Leu	Gln	Cys	Thr	Cys
				95					100					105
Glu	Asp	Ser	Tyr	Thr	Trp	Phe	Pro	Pro	Ser	Cys	Leu	Asp	Pro	Gln
				110					115					120
Asn	Cys	Tyr	Leu	His	Thr	Ala	Gly	Ala	Leu	Pro	Ser	Cys	Glu	Cys
				125					130					135
His	Leu	Asn	Asn	Leu	Ser	Gln	Ser	Val	Asn	Phe	Cys	Glu	Arg	Thr
				140					145					150
Lys	Ile	Trp	Gly	Thr	Phe	Lys	Ile	Asn	Glu	Arg	Phe	Thr	Asn	Asp
				155					160					165
Leu	Leu	Asn	Ser	Ser	Ser	Ala	Ile	Tyr	Ser	Lys	Tyr	Ala	Asn	Gly
				170					175					180
Ile	Glu	Ile	Gln	Leu	Lys	Lys	Ala	Tyr	Glu	Arg	Ile	Lys	Gly	Phe
				185					190					195
Glu	Ser	Val	Gln	Val	Thr	Gln	Phe	Arg	Asn	Gly	Ser	Ile	Val	Ala
				200					205					210
Gly	Tyr	Glu	Val	Val	Gly	Ser	Ser	Ser	Ala	Ser	Glu	Leu	Leu	Ser
				215					220					225
Ala	Ile	Glu	His	Val	Ala	Glu	Lys	Ala	Lys	Thr	Ala	Leu	His	Lys
				230					235					240
Leu	Phe	Pro	Leu	Glu	Asp	Gly	Ser	Phe	Arg	Val	Phe	Gly	Lys	Ala
				245					250					255
Gln	Cys	Asn	Asp	Ile	Val	Phe	Gly	Phe	Gly	Ser	Lys	Asp	Asp	Glu
				260					265					270

Tyr	Thr	Leu	Pro	Cys	Ser	Ser	Gly	Tyr	Arg	Gly	Asn	Ile	Thr	Ala
				275					280					285
Lys	Cys	Glu	Ser	Ser	Gly	Trp	Gln	Val	Ile	Arg	Glu	Thr	Cys	Val
				290					295					300
Leu	Ser	Leu	Leu	Glu	Glu	Leu	Asn	Lys	Asn	Phe	Ser	Met	Ile	Val
				305					310					315
Gly	Asn	Ala	Thr	Glu	Ala	Ala	Val	Ser	Ser	Phe	Val	Gln	Asn	Leu
				320					325					330
Ser	Val	Ile	Ile	Arg	Gln	Asn	Pro	Ser	Thr	Thr	Val	Gly	Asn	Leu
				335					340					345
Ala	Ser	Val	Val	Ser	Ile	Leu	Ser	Asn	Ile	Ser	Ser	Leu	Ser	Leu
				350					355					360
Ala	Ser	His	Phe	Arg	Val	Ser	Asn	Ser	Thr	Met	Glu	Asp	Val	Ile
				365					370					375
Ser	Ile	Ala	Asp	Asn	Ile	Leu	Asn	Ser	Ala	Ser	Val	Thr	Asn	Trp
				380					385					390
Thr	Val	Leu	Leu	Arg	Glu	Glu	Lys	Tyr	Ala	Ser	Ser	Arg	Leu	Leu
				395					400					405
Glu	Thr	Leu	Glu	Asn	Ile	Ser	Thr	Leu	Val	Pro	Pro	Thr	Ala	Leu
				410					415					420
Pro	Leu	Asn	Phe	Ser	Arg	Lys	Phe	Ile	Asp	Trp	Lys	Gly	Ile	Pro
				425					430					435
Val	Asn	Lys	Ser	Gln	Leu	Lys	Arg	Gly	Tyr	Ser	Tyr	Gln	Ile	Lys
				440					445					450
Met	Cys	Pro	Gln	Asn	Thr	Ser	Ile	Pro	Ile	Arg	Gly	Arg	Val	Leu
				455					460					465
Ile	Gly	Ser	Asp	Gln	Phe	Gln	Arg	Ser	Leu	Pro	Glu	Thr	Ile	Ile
				470					475					480
Ser	Met	Ala	Ser	Leu	Thr	Leu	Gly	Asn	Ile	Leu	Pro	Val	Ser	Lys
				485					490					495
Asn	Gly	Asn	Ala	Gln	Val	Asn	Gly	Pro	Val	Ile	Ser	Thr	Val	Ile
				500					505					510
Gln	Asn	Tyr	Ser	Ile	Asn	Glu	Val	Phe	Leu	Phe	Phe	Ser	Lys	Ile
				515					520					525
Glu	Ser	Asn	Leu	Ser	Gln	Pro	His	Cys	Val	Phe	Trp	Asp	Phe	Ser
				530					535					540
His	Leu	Gln	Trp	Asn	Asp	Ala	Gly	Cys	His	Leu	Val	Asn	Glu	Thr
				545					550					555
Gln	Asp	Ile	Val	Thr	Cys	Gln	Cys	Thr	His	Leu	Thr	Ser	Phe	Ser
				560					565					570
Ile	Leu	Met	Ser	Pro	Phe	Val	Pro	Ser	Thr	Ile	Phe	Pro	Val	Val
				575					580					585
Lys	Trp	Ile	Thr	Tyr	Val	Gly	Leu	Gly	Ile	Ser	Ile	Gly	Ser	Leu
				590					595					600
Ile	Leu	Cys	Leu	Ile	Ile	Glu	Ala	Leu	Phe	Trp	Lys	Gln	Ile	Lys
				605					610					615
Lys	Ser	Gln	Thr	Ser	His	Thr	Arg	Arg	Ile	Cys	Met	Val	Asn	Ile
				620					625					630
Ala	Leu	Ser	Leu	Leu	Ile	Ala	Asp	Val	Trp	Phe	Ile	Val	Gly	Ala
				635					640					645
Thr	Val	Asp	Thr	Thr	Val	Asn	Pro	Ser	Gly	Val	Cys	Thr	Ala	Ala
				650					655					660
Val	Phe	Phe	Thr	His	Phe	Phe	Tyr	Leu	Ser	Leu	Phe	Phe	Trp	Met
				665					670					675
Leu	Met	Leu	Gly	Ile	Leu	Leu	Ala	Tyr	Arg	Ile	Ile	Leu	Val	Phe
				680					685					690
His	His	Met	Ala	Gln	His	Leu	Met	Met	Ala	Val	Gly	Phe	Cys	Leu
				695					700					705
Gly	Tyr	Gly	Cys	Pro	Leu	Ile	Ile	Ser	Val	Ile	Thr	Ile	Ala	Val
				710					715					720
Thr	Gln	Pro	Ser	Asn	Thr	Tyr	Lys	Arg	Lys	Asp	Val	Cys	Trp	Leu
				725					730					735
Asn	Trp	Ser	Asn	Gly	Ser	Lys	Pro	Leu	Leu	Ala	Phe	Val	Val	Pro
				740					745					750
Ala	Leu	Ala	Ile	Val	Ala	Val	Asn	Phe	Val	Val	Val	Leu	Leu	Val
				755					760					765
Leu	Thr	Lys	Leu	Trp	Arg	Pro	Thr	Val	Gly	Glu	Arg	Leu	Ser	Arg

Asp	Asp	Lys	Ala	770	Ile	Ile	Arg	Val	775	Gly	Lys	Ser	Leu	Leu	Ile	780
				785					790							795
Leu	Thr	Pro	Leu	800	Gly	Leu	Thr	Trp	805	Gly	Phe	Gly	Ile	Gly	Thr	810
Ile	Val	Asp	Ser	815	Gln	Asn	Leu	Ala	820	His	Val	Ile	Phe	Ala	Leu	825
Leu	Asn	Ala	Phe	830	Gln	Gly	Phe	Phe	835	Leu	Cys	Phe	Gly	Ile	Leu	840
Leu	Asp	Ser	Lys	845	Leu	Arg	Gln	Leu	850	Phe	Asn	Lys	Leu	Ser	Ala	855
Leu	Ser	Ser	Trp	860	Lys	Gln	Thr	Glu	865	Gln	Asn	Ser	Ser	Asp	Leu	870
Ser	Ala	Lys	Pro	875	Lys	Phe	Ser	Lys	880	Phe	Asn	Pro	Leu	Gln	Asn	885
Lys	Gly	His	Tyr	890	Ala	Phe	Ser	His	895	Gly	Asp	Ser	Ser	Asp	Asn	900
Ile	Met	Leu	Thr	905	Gln	Phe	Val	Ser	910	Glu						

<210> 3

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3226980CD1

<400> 3

Met	Glu	Ser	Ser	Pro	Ile	Pro	Gln	Ser	Ser	Gly	Asn	Ser	Ser	Thr		
1				5					10					15		
Leu	Gly	Arg	Val	20	Gln	Thr	Pro	Gly	25	Ser	Thr	Ala	Ser	Gly		
Val	Pro	Glu	Val	35	Leu	Arg	Asp	Val	40	Ala	Ser	Glu	Ser	Val	Ala	
Leu	Phe	Phe	Met	50	Leu	Leu	Asp	Leu	55	Thr	Ala	Val	Ala	Gly	Asn	
Ala	Ala	Val	Met	65	Ala	Val	Ile	Ala	70	Thr	Pro	Ala	Leu	Arg	Lys	
Phe	Val	Phe	Val	80	Phe	His	Leu	Cys	85	Val	Asp	Leu	Leu	Ala	Ala	
Leu	Thr	Leu	Met	95	Pro	Leu	Ala	Met	100	Ser	Ser	Ser	Ala	Leu	Phe	
Asp	His	Ala	Leu	110	Phe	Gly	Glu	Val	115	Cys	Arg	Leu	Tyr	Leu	Phe	
Leu	Ser	Val	Cys	125	Phe	Val	Ser	Leu	130	Ile	Leu	Ser	Val	Ser	Ala	
Ile	Asn	Val	Glu	140	Arg	Tyr	Tyr	Tyr	145	Val	His	Pro	Met	Arg	Tyr	
Glu	Val	Arg	Met	155	Thr	Leu	Gly	Leu	160	Ala	Ser	Val	Leu	Val	Gly	
Val	Trp	Val	Lys	170	Ala	Leu	Ala	Met	175	Ser	Val	Pro	Val	Leu	Gly	
Arg	Val	Ser	Trp	185	Glu	Glu	Gly	Ala	190	Pro	Ser	Val	Pro	Pro	Gly	
Ser	Leu	Gln	Trp	200	Ser	His	Ser	Ala	205	Tyr	Cys	Gln	Leu	Phe	Val	
Val	Phe	Ala	Val	215	Leu	Tyr	Phe	Leu	220	Leu	Pro	Leu	Leu	Leu	Ile	
Val	Val	Tyr	Cys	230	Ser	Met	Phe	Arg	235	Val	Ala	Arg	Val	Ala	Ala	
Gln	His	Gly	Pro	245	Leu	Pro	Thr	Trp	250	Met	Glu	Thr	Pro	Arg	Gln	
Ser	Glu	Ser	Leu	260	Ser	Ser	Arg	Ser	265	Thr	Met	Val	Thr	Ser	Ser	
Ala	Pro	Gln	Thr		Thr	Pro	His	Arg		Thr	Phe	Gly	Gly	Gly	Lys	

Ala Val Val Leu	275	Ala Val Gly Gly	280	Phe Leu Leu Cys	285
Leu Pro Tyr Phe	290	Val Val Val Thr	295	Val Ala Leu Ser	300
Pro Ile Ser Thr	305	Gln Val Glu Ser	310	Val Val Thr Trp	315
Tyr Phe Cys Phe	320	Thr Ser Asn Pro	325	Phe Tyr Gly Cys	330
Arg Gln Ile Arg	335	Gly Glu Leu Ser	340	Phe Val Cys Phe	345
Lys Pro Ala Pro	350	Glu Glu Leu Arg	355	Leu Pro Ser Arg	360
Ser Ile Glu Glu	365	Asn Phe Leu Gln	370	Gln Gly Thr Gly	375
Pro Ser Glu Ser	380	Trp Val Ser Arg	385	Leu Pro Ser Pro	390
Glu Pro Pro Ala	395	Val Asp Phe Arg	400	Pro Gly Gln Ile	405
Glu Thr Ser Glu	410	Phe Leu Glu Gln	415	Gln Ile Ala Glu	420
Met Ser Asp Ser	425	Tyr Leu Arg Pro	430	Leu Thr Ser Asp	435
Ser	440	Ala Ser Pro Arg	445	Leu Glu	450

<210> 4

<211> 524

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 269898CD1

<400> 4

Met Cys Gly Ser	1	Glu Arg Ile Leu	10	Gln Ala Gly Asn	15
Ile Arg Val Gly	20	Gln Ala Gly Ala	25	Arg Val Ala Thr	30
Ser Pro Val Leu	35	Val Asp Ile Arg	40	Glu Val Thr Cys	45
Cys Leu Glu Leu	50	Leu Thr Glu Pro	55	Leu Ser Ile Asp	60
Ser Phe Cys Gln	65	Ala Cys Ile Thr	70	Pro Asn Gly Arg	75
Ile Gly Gln Glu	80	Gly Glu Arg Ser	85	Cys Pro Val Cys	90
Tyr Gln Pro Gly	95	Asn Leu Arg Pro	100	Asn Arg His Leu	105
Val Arg Arg Leu	110	Arg Glu Val Val	115	Leu Gly Pro Gly	120
Lys Ala Val Leu	125	Cys Ala Asp His	130	Gly Glu Lys Leu	135
Cys Gln Glu Asp	140	Gly Lys Val Ile	145	Cys Trp Leu Cys	150
Gln Glu His Arg	155	Gly His His Thr	160	Phe Leu Val Glu	165
Gln Glu Tyr Gln	170	Lys Phe Gln Glu	175	Ser Leu Lys Lys	180
Glu Glu Gln Glu	185	Ala Glu Lys Leu	190	Thr Phe Ile Arg	195
Lys Thr Ser Trp	200	Lys Ala Arg Glu	205	Thr Phe Ser Glu	210
Gly Gln Glu Ser	215	Trp Gln Ser Thr	220	Asn Ala Arg Glu	225
Ile Pro Gly Leu		Glu Ala Ala His		Phe Trp Ile Ala	

Cys	Ala	Met	Tyr	230	Val	Ala	Leu	Val	235	Gly	Asn	Ala	Ala	Leu	240	Ile
Leu	Val	Ile	Ala	245	Met	Asp	Asn	Ala	250	His	Ala	Pro	Met	Tyr	255	Leu
Phe	Leu	Cys	Leu	260	Leu	Ser	Leu	Thr	265	Leu	Ala	Leu	Ser	Ser	270	Thr
Thr	Val	Pro	Lys	275	Met	Leu	Ala	Ile	280	Trp	Leu	His	Ala	Gly	285	Glu
Ile	Ser	Phe	Gly	290	Gly	Cys	Leu	Ala	295	Met	Phe	Cys	Val	His	300	Ser
Ile	Tyr	Ala	Leu	305	Glu	Ser	Ser	Ile	310	Leu	Ala	Met	Ala	Phe	315	Asp
Arg	Tyr	Val	Ala	320	Ile	Cys	Asn	Pro	325	Arg	Tyr	Thr	Thr	Ile	330	Leu
Asn	His	Ala	Val	335	Ile	Gly	Arg	Ile	340	Phe	Val	Gly	Leu	Phe	345	Arg
Ser	Val	Ala	Ile	350	Val	Ser	Pro	Phe	355	Phe	Leu	Leu	Arg	Arg	360	Leu
Pro	Tyr	Cys	Gly	365	His	Arg	Val	Met	370	His	Thr	Tyr	Cys	Glu	375	His
Met	Gly	Ile	Ala	380	Arg	Leu	Ala	Cys	385	Asn	Ile	Thr	Val	Asn	390	Ile
Val	Tyr	Gly	Leu	395	Thr	Val	Ala	Leu	400	Ala	Met	Gly	Leu	Asp	405	Ser
Ile	Leu	Ile	Ala	410	Ile	Ser	Tyr	Gly	415	Ile	Leu	His	Ala	Val	420	Phe
His	Leu	Pro	Ser	425	His	Asp	Ala	Gln	430	Lys	Ala	Leu	Ser	Thr	435	Cys
Gly	Ser	His	Ile	440	Gly	Ile	Ile	Leu	445	Phe	Tyr	Ile	Pro	Ala	450	Phe
Phe	Ser	Phe	Leu	455	Thr	His	Arg	Phe	460	His	His	Glu	Val	Pro	465	Lys
His	Val	His	Ile	470	Phe	Leu	Ala	Asn	475	Tyr	Val	Leu	Val	Pro	480	Pro
Val	Leu	Asn	Pro	485	Ile	Leu	Tyr	Gly	490	Arg	Thr	Lys	Glu	Ile	495	Arg
Ser	Arg	Leu	Leu	500	Lys	Leu	Leu	His	505	Gly	Lys	Thr	Ser	Ile	510	
				515					520							

<210> 5

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4585651CD1

<400> 5

Met	Phe	Ile	Gly	Val	Leu	Asp	Leu	Phe	Phe	Ile	Ile	Leu	Ser	Tyr
1				5					10					15
Ile	Phe	Ile	Leu	Gln	Ala	Val	Leu	Gln	Leu	Ser	Ser	Gln	Glu	Ala
				20					25					30
Arg	Tyr	Lys	Ala	Phe	Gly	Thr	Cys	Val	Ser	His	Ile	Gly	Ala	Ile
				35					40					45
Leu	Ala	Phe	Tyr	Thr	Pro	Ser	Val	Ile	Ser	Ser	Val	Met	His	Arg
				50					55					60
Val	Ala	Arg	Cys	Ala	Ala	Pro	His	Val	His	Ile	Leu	Leu	Ala	Asn
				65					70					75
Phe	Tyr	Leu	Leu	Phe	Pro	Pro	Met	Val	Asn	Pro	Ile	Ile	Tyr	Gly
				80					85					90
Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Ser	Leu	Gly	Ser	Ile	Pro	Glu
				95					100					105
Lys	Gly	Cys	Val	Asn	Arg	Glu								
				110										

<210> 6
 <211> 305
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7472063CD1

<400> 6
 Met Glu Phe Val Phe Leu Ala Tyr Pro Ser Cys Pro Glu Leu His
 1 5 10 15
 Ile Leu Ser Phe Leu Gly Val Ser Leu Val Tyr Gly Leu Ile Ile
 20 25 30
 Thr Gly Asn Ile Leu Ile Val Val Ser Ile His Thr Glu Thr Cys
 35 40 45
 Leu Cys Thr Ser Met Tyr Tyr Phe Leu Gly Ser Leu Ser Gly Ile
 50 55 60
 Glu Ile Cys Tyr Thr Ala Val Val Val Pro His Ile Leu Ala Asn
 65 70 75
 Thr Leu Thr Val Arg Glu Asp Ile Thr Leu Leu Gly Cys Ala Thr
 80 85 90
 Gln Met Ala Phe Phe Ile Ala Leu Gly Ser Ala Asp Cys Phe Leu
 95 100 105
 Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
 110 115 120
 Leu Gln Tyr Pro Leu Leu Met Thr Leu Thr Leu Cys Val His Leu
 125 130 135
 Val Val Ala Ser Val Ile Ser Gly Leu Phe Leu Ser Leu Gln Leu
 140 145 150
 Val Ala Phe Ile Phe Ser Leu Pro Phe Cys Gln Ala Gln Gly Ile
 155 160 165
 Glu His Phe Phe Cys Asp Val Pro Pro Val Met His Val Val Cys
 170 175 180
 Ala Gln Ser His Ile His Glu Gln Ser Val Leu Val Ala Ala Ile
 185 190 195
 Leu Ala Ile Ala Val Pro Phe Phe Leu Ile Thr Thr Ser Tyr Thr
 200 205 210
 Phe Ile Val Ala Ala Leu Leu Lys Ile His Ser Ala Ala Gly Arg
 215 220 225
 His Arg Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu
 230 235 240
 Leu Gln Tyr Gly Cys Cys Ala Phe Met Tyr Leu Cys Pro Ser Ser
 245 250 255
 Ser Tyr Asn Pro Lys Gln Asp Arg Phe Ile Ser Leu Val Tyr Thr
 260 265 270
 Leu Gly Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ala Leu Arg Asn
 275 280 285
 Ser Glu Met Lys Gly Ala Val Gly Arg Val Leu Thr Arg Asn Cys
 290 295 300
 Leu Ser Gln Asn Ser
 305

<210> 7
 <211> 1625
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5628963CB1

<400> 7
 ggcagcagaa gccagggcag ctgaaagaca gagaccttca gggaaaacta ggttccaaga 60
 tggctgaata ggaagagctc cagtctgcag atcccagtggt gagcaacgtg gaagacgggt 120
 gatttctgca tttccaactg agcatggaga gaaaatttat gtccttgcaa ccattccatct 180
 ccgtatcaga aatggaacca aatggcacct tcagcaataa caacagcagg aactgcacaa 240

```

ttgaaaactt caagagagaa tttttcccaa ttgtatatct gataaatattt ttctggggag 300
tcttgggaaa tgggttgtcc atatatgttt tcttgcagcc ttataagaag tccacatctg 360
tgaacgtttt catgctaaat ctggccattt cagatctcct gttcataaag acgcttccct 420
tcagggtctga ctattatctt agaggctcca attggatatt tggagacctg gcctgcagga 480
ttatgtctta ttccttgtat gtcaacatgt acagcagtat ttatttcttg accgtgctga 540
gtgttgtgcg tttcctggca atgggtcacc ccttctggct tctgcatgtc accagcatca 600
ggagtgcctg gatcctctgt gggatcatat ggatccttat catggcttcc tcaataatgc 660
tcctggacag tggctctgag cagaacggca gtgtcacatc atgcttagag ctgaatctct 720
ataaaattgc taagctgcag accatgaact atattgcctt ggtgggtggc tgctgtctgc 780
catttttcac actcagcatc tgttatctgc tgatcattcg ggttctgtta aaagtggagg 840
tcccagaatc ggggctgcgg gtttctcaca ggaaggcact gaccaccatc atcatcacct 900
tgatcatctt cttcttgtgt ttcttgcctt atcacacact gaggaccgtc cacttgacga 960
catggaaagt gggtttatgc aaagacagac tgcataaagc tttggttatc acactggcct 1020
tggcagcagc caatgcctgc ttcaatcctc tgctctatta ctttgcctggg gagaatttta 1080
aggacagact aaagtctgca ctcagaaaag gccatccaca gaaggcaaag acaaagtgtg 1140
ttttccctgt tagtgtgtgg ttgagaaaag aaacaagagt ataaggagct cttagatgag 1200
acctgttctt gtatccttgt gtccatcttc attcactcat agtctccaaa tgactttgta 1260
tgttacatca ctcccaacaa atgttgatct ttaatattta gttgaccatt acttttgta 1320
ataagacctt cttcaaaaat tttattcagt gtattttcag ttgttgagtc ttaatgaggg 1380
atacaggagg aaaaatccct actagagtc tgtgggttga aatatcagac tgggaaaaaa 1440
tgcaaacgac attggatcct acttttcttc agatattgaa ccagatctct ggcccatcag 1500
gctttctaaa ttcttcaaaa gagccacaac ttcccagct tctccagctc cctgtctctc 1560
ttcaatccct tgagatatag ccaactaacg acgctactgg aagcctttcc agcacaatgg 1620
cgccc

```

<210> 8

<211> 3446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1453124CB1

<400> 8

```

cagtggacct gtgttcatgc cagtggacct ctgtggctca gatactgata ctttctttcc 60
aaacagcata agaagtgatt gagccacaag tatactgaag gaagggtctc ctcgagtgtg 120
ggtgtgaaga gataaatcac cagtacacga ctatgcaccc gactgctgct gttcagttca 180
ggggaaatga aagtgtggagt gctgtggctc gtttctttct tcaccttcac tgacggccac 240
ggtggcttcc tggggaaaaa tgatggcatc aaaacaaaaa aagaactcat tgtgaataag 300
aaaaaacatc taggcccagt cgaagaatat cagctgctgc ttcaggtgac ctatagagac 360
tccaaggaga aaagagactt gagaaatttt ctgaagctct tgaagcctcc attattatgg 420
tcacatgggc taattagaat tatcagagca aaggctacca cagactgcaa cagcctgaat 480
ggagtccctg agtgtacctg tgaagacagc tacacctggt ttcttccctc atgccttgat 540
ccccagaact gctaccttca cagggctgga gcactcccaa gctgtgaatg tcatctcaac 600
aacctcagcc agagtgtcaa tttctgtgag agaacaaaga tttggggcac tttcaaaaat 660
aatgaaaggt ttacaaatga ccttttgaat tcactcttct ctatatactc caaatgtga 720
aatggaattg aaattcaact taaaaaagca tatgaaagaa ttaaagggtt tgagtcggtt 780
caggtcaccc aatttcgaaa tggaagcatc gttgctgggt atgaagtgtg tggctccagc 840
agtgcattct aactgctgtc agccattgaa catgttgccg agaaggctaa gacagccctt 900
cacaagctgt ttccattaga agacggctct ttcagagtgt tcggaaaagc ccagtgtaat 960
gacattgtct ttggatttgg gtccaaggat gatgaatata cctgccttg cagcagtggc 1020
tacaggggaa acatcacagc caagtgtgag tctctgggtt ggcaggtcat caggagact 1080
tgtgtgctct ctctgcttga agaactgaac aagaatttca gtatgattgt aggcaatgcc 1140
actgaggcag ctgtgtcatc ctctgtgcaa aatctttctg tcattcattcg gcaaaaacca 1200
tcaaccacag tggggaatct ggcttcgggt gtgtcgattc tgagcaatat tcatctctg 1260
tcaactggca gccatttcag ggtgtccaat tcaacaatgg aggatgtcat cagtatagct 1320
gacaatatcc ttaattcagc ctcaagtaacc aactggacag tcttactgct ggaagaaaag 1380
tatgccagct caggtgtact agagacatta gaaaacatca gcactctggt gcctccgaca 1440
gctcttcttc tgaatttttc tcggaaatct attgactgga aagggattcc agtgaacaaa 1500
agccaactca agcaggggtta cagctatcag attaaaatgt gtccccaaa tacatctatt 1560
cccatcagag gccgtgtgtt aattgggtca gaccaattcc agagatccct tccagaaaact 1620
attatcagca tggcctcgtt gactctgggg aacattctac ccgtttccaa aaatggaaat 1680
gctcaggtca atggacctgt gatatccacg gttattcaaa actattccat aaatgaagtt 1740
ttcctatttt ttccaagat agagtcaaac ctgagccagc ctcatttgtgt gttttgggat 1800
ttcagtcatt tgcagtggaa cgatcgagcg tgccacctag tgaatgaaac tcaagacatc 1860
gtgacgtgcc aatgtactca cttgacctcc ttctccatat tgatgtcacc ttttgtcccc 1920

```


tctacaatct	tccccgttgt	aaaatggatc	acctatgtgg	gactgggtat	ctccattgga	1980
agtctcattt	tatgcctgat	catcgaggct	ttgttttggg	agcagattaa	aaaaagccaa	2040
acctctcaca	cacgtcgtat	ttgcatgggtg	aacatagccc	tgtccctctt	gattgctgat	2100
gtctgggtta	ttgttgggtgc	cacagtggac	accacgggtga	acccttcttg	agtctgcaca	2160
gctgctgtgt	tctttacaca	cttcttctac	ctctctttgt	tcttctggat	gctcatgctt	2220
ggcatccctgc	tggcttacccg	gatcatcctc	gtgttccatc	acatggccca	gcatttgatg	2280
atggctgttg	gattttgcct	gggttatggg	tgccctctca	ttatatctgt	cattaccatt	2340
gctgtcacgc	aacctagcaa	tacctacaaa	aggaaagatg	tgtgttggct	taactggtec	2400
aatggaagca	aaccactcct	ggcttttgtt	gtccctgcac	tggctattgt	ggctgtgaac	2460
ttcgttgtgg	tgctgctagt	tctcacaaag	ctctggaggc	cgactgttgg	ggaaagactg	2520
agtcgggatg	acaaggccac	catcatccgc	gtgggggaaga	gcctcctcat	tctgacccct	2580
ctgctagggc	tcacctgggg	ctttggaata	ggaacaatag	tggacagcca	gaatctggct	2640
tggcatgtta	tttttgcttt	actcaatgca	ttccagggat	tttttatctt	atgctttgga	2700
atactcttgg	acagtaagct	gcgacaactt	ctgttcaaca	agttgtctgc	cttaagtctt	2760
tggaagcaaa	cagaaaagca	aaactcatca	gatttatctg	ccaaacccaa	attctcaaag	2820
cctttcaacc	cactgcaaaa	caaaggccat	tatgcatttt	ctcatactgg	agattcctcc	2880
gacaacatca	tgctaactca	gtttgtctca	aatgaataag	gcaaggaatc	ataaaatcaa	2940
gaaaaaattt	ccagaacaac	ttgacattta	gagacaaatg	tcaatgaaga	aattatgctc	3000
agtattcgat	cgggttttct	gatttagggg	tctgggaata	aaacaagaat	gtctcagtgg	3060
cttcattact	gtcccttttt	gtcttcaatt	aaatgaaaag	aagatttatt	tccatgtgat	3120
ttgattcaaa	gaaagtgtct	cataaatgca	gaagagtagg	ttttgttggg	aatcgtgtca	3180
gttgtaccct	gaccataaaa	tatggtttct	attttcataa	aacagcatta	ttcacatggc	3240
atttccaata	atctggattg	aaggaagaaa	attttatgaa	atagcttttag	ataaattaat	3300
aggccacgtt	cattttcttg	tcaaaaagtt	actggtgggg	ggatggtggg	aaaaagttat	3360
tagtgcaaat	ttccttagag	aaaaaccatt	tctctttcaa	attttccagt	tgaattttat	3420
gttcgctttt	gcttcttagg	ttcata				3446

<210> 9

<211> 1731

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3226980CB1

<400> 9

agttctggaa	agggtagaag	ggtatggaga	acaagaatgg	cagaaaggag	atggaaaagg	60
aagaggtgaa	ggccattccg	aaagcggagt	gttgagtggg	tcaggctcct	gcacctctca	120
cgtctcctgc	ttcttagcag	tcaccaaggc	agaccctgca	gctacctcog	gccagaaagg	180
ggatgagctt	ctgatccttc	agctgcctgg	cctggcgctc	tgtacgcaga	caaacctgcc	240
caagaggctc	cagtgggagg	tgccccctac	gaaaccagga	agcctgggce	tgggctcgcc	300
atcccagggt	cgctggacta	ggatggggga	tgggctgtg	acaggaggta	ccctgggtgc	360
cctctttcgg	ccccatggag	tcctcaccca	tccccagtc	atcagggaac	tcttccactt	420
tggggagggt	ccctcaaacc	ccaggteect	ctactgccag	tggggctccg	gagggtggggc	480
tacgggatgt	tgcttcggaa	tctgtggccc	tcttcttcat	gctcctgctg	gacttgactg	540
ctgtggctgg	caatgccgct	gtgatggcgc	tgatgcctca	gacgcctgcc	ctccgaaaat	600
ttgtcttcgt	cttcaccttc	tgctgtgtgg	accctgctgg	tgccctgacc	ctcatgcccc	660
tggccatgct	ctccagctct	gccctctttg	accacgcctt	ctttggggag	gtggcctgcc	720
gcctctactt	gtttctgagc	gtgtgctttg	tcagcctggc	catcctctcg	gtgtcagcca	780
tcaatgtgga	gcgctactat	tacgtagtcc	accccatgcg	ctacgagggt	cgcatgacgc	840
tggggctggg	ggcctctgtg	ctgggtgggtg	tgtgggtgaa	ggccttggee	atggcttctg	900
tgccagtgtt	gggaagggtc	tcctgggagg	aaggagctcc	cagtgtcccc	ccaggctgtt	960
cactccagtg	gagccacagt	gcctactgcc	agctttttgt	ggtggtcttt	gctgtccttt	1020
actttctgtt	gcccctgtct	ctcatacttg	tggctctactg	cagcatgttc	cgagtggccc	1080
cgtgtgctgc	catgcagcac	gggcccgtgc	ccacgtggat	ggagacaccc	cggcaacgct	1140
ccgaatctct	cagcagccgc	tccacgatgg	tcaccagctc	ggggggcccc	cagaccaccc	1200
cacaccggac	gtttggggga	gggaaagcag	cagtgggtct	cctggctgtg	gggggacagt	1260
tcctgtctctg	ttgggtgccc	tacttctctt	tccacctcta	tgttgccctg	agtgtctcagc	1320
ccatttcaac	tgggcagggtg	gagagtgtgg	tcacctggat	tggctacttt	tgcttcaactt	1380
ccaacctctt	cttctatgga	tgtctcaacc	ggcagatccg	gggggagctc	aggaagcagt	1440
ttgtctgctt	cttcaagcca	gctccagagg	aggagctgag	gctgcctagc	cgggagggtc	1500
ccattgagga	gaacttctctg	cagttccttc	aggggactgg	ctgtccttct	gagtcctggg	1560
tttcccagac	cctacccagc	cccaagcagg	agccacctgc	tgttgacttt	cgaatcccag	1620
gccagatagc	tgaggagacc	tctgagttcc	tggagcagca	actcaccagc	gacatcatca	1680
tgtcagacag	ctacctccgt	cctgcgcgct	caccccggct	ggagtcatga	t	1731

<210> 10
 <211> 1826
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <223> Incyte ID No: 269898CB1

<400> 10
 cggagatgag ccttccgcaa actcctgacc tgtgggtccg tccgttcaac ggccaaaggc 60
 tggcggagga gggatccctt gcctttctcg gaacggaac gagcagagtc atgcgtggtt 120
 gagtttagat aaaagccgag tgagcgcgct ctgttcctta agattagttt aagggtgcctt 180
 ggattgctct gaagagcttt gaccacctga tattgcttac atctggaact tcttggtctc 240
 tcattcccca gatgtgcggg tcagagagga ttctacaggc aggaaacatc ttagaaatca 300
 ggggtgggca ggcaggagcc aggagagtag ctacaatgac ttcaccagta ctgggtggaca 360
 tacgagaaga ggtgacctgc cctatctgcc tggagctcct aacagaacct ctgagcatag 420
 actgtggcca cagcttctgc caagcctgca tcacaccaa tggcagggaa tcagtgattg 480
 gtcaagaagg ggaaagaagc tgccctgtgt gccagaccag ctaccagcca gggaacctgc 540
 ggcctaactg gcatctggcc aacatagtga ggcggtcag agaggtagtg ttggggccctg 600
 ggaagcagct gaaagcagtt ctttgtgcag accatggaga aaaactgcag ctcttctgtc 660
 aggaggatgg gaaggtcatt tgctggcttt gtgagcggtc tcaggagcac cgtggtcacc 720
 acacgttcc tctggaggag gttgccccagg agtaccagaa gtttcaggag tctctaaaga 780
 agctgaagaa cgaggagcag gaagctgaga agctaacagc ttttatcaga gagaagaaga 840
 catcctggaa ggcaaggagg actttttctg aagatgtcct ggggcaggaa tcatggcaga 900
 gtacaaatgc aagggaataat gcagggatcc cagggtctga ggctgcccac ttctggattg 960
 ccatcccttt ctgtgccatg tatctttagt cactggttgg aaatgctgcc ctcatcctgg 1020
 tcattgccat ggacaatgct ctcatgcac ctatgtacct ctctctctgc ctctctctac 1080
 tcacagacct ggctctcagt tctaccactg tgcccagat gctggccatt ttgtggctcc 1140
 atgctggtga gatttccttt ggtggatgcc tggcccagat gttttgtgtc cattctatct 1200
 atgctctgga gtectcgatt ctacttgcca tggcctttga taggtatgtg gctatctgta 1260
 acccataaag gtatacaacc attctcaacc atgctgtcat aggcagaatt ggctttgttg 1320
 ggctatttcc tagtgtggct attgtctccc ccttcatctt cttgctgagg cgactcccc 1380
 actgtggtca cgtgtcattg acacacacat actgtgagca tatgggcata gcccgactgg 1440
 cctgtgccaa catcactgtc aatattgtct atgggctaac tgtggctctg ctggccatgg 1500
 gactggattc cattctcatt gccatttctt atggctttat cctccatgca gtctttcacc 1560
 ttccatctca tgatgccccag cacaaagctc tgagtacctg tggctcccac attggcatca 1620
 tectggtttt ctacatccct gccttcttct ccttctctac ccaccgcttt ggctaccacg 1680
 aagtcccaa gcatgtgcac atctttctgg ctaatctcta tgtgctggtg cctcctgtac 1740
 tcaatcctat tctctatgga gctagaacca aggagattcg gactcgactt ctaaaactgc 1800
 ttcacctggg gaagacttca atatga 1826

<210> 11
 <211> 1074
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <223> Incyte ID No: 4585651CB1

<400> 11
 gccgctgct actgtgaaca catggctgtg gtcaggctgg ctgtgggaac actagcttca 60
 acaatatcta tggcattgct gtggccatgt ttattggagt gttggatcta ttctttatca 120
 tcctatctta tatctttatc cttcaggcag ttctacaact ctctctcag gaggcccgt 180
 acaaagcatt tgggacatgt gtctctcaca taggtgccat cttagccttc tacacacct 240
 cagtcacttc tttagtcatt caccgtgtgg cccgctgtgc tgcgccacac gtccacattc 300
 tctctgccaa tttctatctg ctcttcccac ccatggtcaa tcccatcatc taaggcggtta 360
 agaccaagca gatccgtgac agtcttggga gtattcccga gaaaggatgt gtgaatagag 420
 agtgaggaa aagtggaaaa agagtggggc acagtgaatg ctgtagtggg ccagggtctg 480
 gctgagagta gatgggtgct agactccacg tttagttctt ttcttgatt atggaaagaa 540
 taaatgatgt cctgaagctc agtgccaaca gtctgtttag aatttgggg tctttgcct 600
 ctggtagcct ctggattgaa cctggtgact gtgctgtctc ctacagagc cctgactcct 660
 gtcagtaaac ttgacagagt cttgaccctc cggcctcatg gtgactttgc tgaaggacac 720
 aaagatgctt ccaagttcat ttgcctaaga gaagactgtg aaaatctgaa ttccatctc 780
 tgacttggtg gaaatttggt gaattatcca ctagattcc cgagttagga cctctactcc 840
 atccagtgcga ggagttctgc tacattctaa cagttgaacc ctgactcta cctaaacact 900

```

gtcagtgtctg gtgcacatgc atccttttagg cctattttatt ccaagtgaga cagctctgtct 960
tggttagaagg ttattttcttc aactaagcca gtctgtattc ttgacttct ttttacctcc 1020
tcacctcat ggctattcca tctcattaaa tactttgaag aaaaaaaaaa aaaa 1074

```

```

<210> 12
<211> 922
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 7472063CB1

```

```

<400> 12
atggaatttg tgttcctggc ctatccctcc tgcccagaac tgcattttct gtccttcctt 60
ggggtcagcc tgggttatgg ttgatcatc actgggaaca ttctcattgt ggtgtccatt 120
cacacagaaa cctgtctatg cacatccatg tactatttcc tgggcagcct ttctgggatt 180
gaaatatgct aactgcagt ggtggtgccc catatcctgg ccaacaccct tacagtcaga 240
gaagacatca ctctcctggg ctgtgccacc cagatggctt tcttcattgc actgggcagt 300
gctgattgct tctctctggc tgccatggcc tatgaccgct atgtggccat ttgccaccg 360
ttgcagtacc ctctcctcat gacattgact ctttgtgtcc acttggttgt ggcattcagt 420
atcagtggtc tgttcctgtc cttacaactg gtggccttca tcttctctct gccattctgc 480
caggctcagg gcattgagca cttcttttgt gatgtgccac cagtcatgca tgttgtttgt 540
gctcagagtc acattcatga gcagtcagtg ctggtggcag ccatactagc cattgctgtg 600
cctttcttcc tcatcaccac ctctacacc ttcatagtgg ctgctctgct caagatccac 660
tcggctgctg gccgccaccg ggccttctcc acctgctctt cccacctcac tgtggtgctg 720
ctgcagtatg gctgctgtgc cttcatgtac ctgtgcccc a gctccagcta caacccaag 780
caagatcggg tcatctcact ggtgtacaca ttgggaacc cactgctcaa ccacttatc 840
tatgccctga ggaacagtga gatgaaaggg gccgtaggga gagttcttac caggaaactgc 900
ctttccaga acagctagga aa 922

```